

**Amendments to the Claims:**

Please amend the claims as follows without prejudice.

**In the claims:**

1-7. (Cancelled).

8-15. (Withdrawn).

16. (New) An array comprising a surface having attached thereto at least one cytosolic accessory protein of a membrane protein selected from ion channels, G protein coupled receptors and transmembrane transporter proteins, wherein said cytosolic accessory protein is free from membrane protein components or other subunits of said ion channel, G protein coupled receptor or transmembrane transporter protein complex.

17. (New) An array as claimed in claim 16, comprising a plurality of cytosolic accessory proteins selected from ion-channel subunits, G protein coupled receptor cytosolic accessory proteins, transmembrane transporter cytosolic accessory proteins, K<sup>+</sup>-channel  $\beta$ -subunits, Ca<sup>2+</sup>-channel  $\beta$ -subunits, G protein subtypes, Kv channel  $\beta$ -subunits, Calcium channel  $\beta$ -subunits, Gs family, Gt family, Gi family, Gi-0 family, Gq-11 family, G $\alpha$ -sensory family and  $\beta\gamma$  family proteins.

18. (New) An array as claimed in claim 16, comprising a plurality of cytosolic accessory proteins which are identical and are selected from ion-channel subunits, G protein coupled receptor cytosolic accessory proteins, transmembrane transporter cytosolic accessory proteins, K<sup>+</sup>-channel  $\beta$ -subunits, Ca<sup>2+</sup>-channel  $\beta$ -subunits, G protein subtypes, Kv channel  $\beta$ -subunits, Calcium channel  $\beta$ -subunits, Gs family, Gt family, Gi family, Gi-0 family, Gq-11 family, G $\alpha$ -sensory family and  $\beta\gamma$  family proteins.

19. (New) An array as claimed in claim 17 or 18, wherein the array comprises at least one K<sup>+</sup>-channel  $\beta$ -subunit selected from:  $\beta$ 1.1,  $\beta$ 1.2,  $\beta$ 1.3,  $\beta$ 2.1,  $\beta$ 2.2,  $\beta$ 3.1,  $\beta$ 3.2 and  $\beta$ 4.
20. (New) An array as claimed in claim 17 or 18, wherein the array comprises at least one calcium channel  $\beta$ -subunit selected from:  $\beta$ 1a,  $\beta$ 1b,  $\beta$ 1c,  $\beta$ 2a,  $\beta$ 2b,  $\beta$ 2c,  $\beta$ 3a,  $\beta$ 3b and  $\beta$ 4.
21. (New) An array as claimed in claim 16, wherein the cytosolic accessory protein is an ion channel subunit domain.
22. (New) An array as claimed in claim 16, wherein cytosolic accessory protein subunits are provided as tagged protein constructs.
23. (New) An array as claimed in claim 16, wherein the cytosolic accessory protein is an ion channel subunit domain provided as tagged protein construct.
24. (New) An array as claimed in claim 22 or 23, wherein the tagged protein construct comprises an affinity tag.
25. (New) An array as claimed in claim 24, wherein the tag is a His, biotin, FLAG, myc, or VSV tag.
26. (New) An array as claimed in claim 16, wherein the protein moieties are attached to the surface via a common marker moiety.
27. (New) An array as claimed in claim 16, wherein each position in the array contains one or more copies of a single protein type in the form of a monomer, dimer, trimer, tetramer or high multimer.